

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please **CANCEL** claims 3, 6, 13, 16, 22, 25-29 and 31-34 without prejudice or disclaimer, and **AMEND** claims 1, 21 and 30 in accordance with the following:

Claim 1 (Currently Amended): A write once disc having ~~a single~~at least one record layer in which a lead-in area, a data area, and a lead-out area are sequentially disposed, the disc comprising a defect management area (DMA) that is present in at least one of the lead-in area or the lead-out area,

wherein defect information and defect management information are repeatedly recorded in the DMA-~~according to a recording operation~~.

Claim 2 (Previously Presented): The disc of claim 1, wherein a plurality of the DMAs are present.

Claim 3 (Canceled):

Claim 4 (Previously Presented): The disc of claim 1, wherein:
the data area comprises a user data area and a spare area; and
an address of data that is most recently recorded in the user area of the record layer and an address of replacement data that is most recently recorded in the spare area of the record layer are recorded in the DMA.

Claim 5 (Previously Presented): The disc of claim 1, wherein a pointer pointing out a position of the defect information is recorded in the DMA.

Claim 6 (Canceled):

Claim 7 (Previously Presented): The disc of claim 1, wherein the defect information for a defect contains state information specifying a state of the defect, a pointer pointing out a position of the defect, and a pointer pointing out a position of a replacement for the defect.

Claim 8 (Original): The disc of claim 7, wherein the state information indicates whether the defect is a continuous defect block or a single defect block.

Claim 9 (Previously Presented): The disc of claim 7, wherein:
the state information indicates that the defect is a continuous defect block, and
corresponding pointers for the defect and the replacement point out a start of the defect
and a start of the replacement, respectively.

Claim 10 (Previously Presented): The disc of claim 7, wherein:
the state information indicates that the defect is a continuous defect block, and
corresponding pointers for the defect and the replacement point out an end of the defect
and an end of the replacement, respectively.

Claim 11 (Previously Presented): A double record layer write once disc having a first record layer in which a lead-in area, a data area, and an outer area are sequentially located and a second record layer in which an outer area, a data area, and a lead-out area are sequentially located, the disc comprising a defect management area (DMA) that is present in at least one of the lead-in area, the lead-out area, or the outer area,
wherein defect information and defect management information are repeatedly recorded in the DMA according to a recording operation.

Claim 12 (Previously Presented): The disc of claim 11, wherein a plurality of the DMAs are present.

Claim 13 (Canceled):

Claim 14 (Previously Presented): The disc of claim 11, wherein:
each data area comprises a user data area and a spare data area; and

addresses of data and replacement data, which are most recently recorded in the user areas and the spare areas of the record layers, respectively, are recorded in the DMA.

Claim 15 (Original): The disc of claim 11, wherein a pointer pointing out the position of the defect information is recorded in the DMA.

Claim 16 (Canceled):

Claim 17 (Previously Presented): The disc of claim 11, wherein the defect information includes state information regarding a defect, a pointer pointing out a position of the defect, and a pointer pointing out a position of a replacement for the defect.

Claim 18 (Original): The disc of claim 17, wherein the state information indicates whether the defect is a continuous defect block or a single defect block.

Claim 19 (Previously Presented): The disc of claim 17, wherein:
the state information specifies that the defect is a continuous defect block, and
corresponding pointers for the defect and the replacement point out a start of the defect and a start of the replacement, respectively.

Claim 20 (Previously Presented): The disc of claim 17, wherein:
the state information specifies that the defect is a continuous defect block, and
corresponding pointers for the defect and the replacement point out an end of the defect and an end of the replacement, respectively.

Claim 21 (Currently Amended): A method of managing disc defects in a disc, comprising:
recording defect information regarding user data, which is recorded in a user data area of the disc according to a first recording operation, in a defect management area (DMA) that is present in at least one of a lead-in area or a lead-out area of the disc;
recording management information for managing the first defect information as first defect management information in the DMA; and

repeating recording of the first defect information and recording of the first defect management information at least once ~~while increasing indexes given to the recording operation, defect information, and defect management information by 1.~~

Claim 22 (Canceled):

Claim 23 (Previously Presented): The method of claim 21, wherein during the recording of the first defect information, the defect information is sequentially recorded in a defect information area included in the DMA, starting from a start of the defect information area toward an end of the defect information area.

Claim 24 (Previously Presented): The method of claim 21, wherein during the recording of the first defect management information, the defect management information is sequentially recorded in a defect information management area included in the DMA, starting from a start of the defect information management area toward an end of the defect information management area.

Claims 25-29 (Canceled):

Claim 30 (Currently Amended): A recording apparatus comprising:
a recording/reading unit that records data on or reads data from a disc; and
a controller that controls the recording/reading unit to repeatedly record defect information regarding data, which is recorded in a data area of the disc ~~per recording operation,~~ as defect information in a defect management area (DMA) that is present at least one of a lead-in area or a lead-out area of the disc, and to repeatedly record management information for managing the defect information as defect management information in the DMA.

Claims 31-34 (Canceled):

Claim 35 (Previously Presented): A method of managing defects on a write once disc, the method comprising:

- recording first data on the disc in predetermined units;
- detecting an area of the disc with a first defect;

storing first defect information in a memory, the first defect information designating the area of the disc with the first defect as a first defective area and designating a first replacement area that is a replacement for the first defective area; and

reading the stored defect information from the memory and recording the read information in a defect management area of the disc.

Claim 36 (Previously Presented): The method of claim 35, further comprising:

detecting a second defect in the first data; and

storing second defect information in the memory, the second defect information designating the area of the disc with the second defect as a second defective area and designating a second replacement area as a replacement area for the second defective area, wherein:

the read information recorded in the defect management area of the disc comprises the first defect information and the second defect information.

Claim 37 (Previously Presented): The method of claim 35, further comprising:

recording second data on the disc;

detecting a defect in the second data; and

storing second defect information in the memory, the second defect information designating the area of the disc with the defect in the second data as a second defective area and designating a second replacement area as a replacement area for the second defective area, wherein:

the read information recorded in the defect management area of the disc comprises the first defect information and the second defect information.

Claim 38 (Previously Presented): The method of claim 35, further comprising:

reading the recorded defect information from the disc and storing the recorded defect information in the memory;

recording second data on the disc;

detecting a defect in the second data; and

storing second defect information in the memory, the second defect information designating the area of the disc with the defect in the second data as a second defective area

and designating a second replacement area as a replacement area for the second defective area; and

storing the second defect information and the defect information read from the disc in the defect management area independently of the defect information read from the disc.

Claim 39 (Previously Presented): The method of claim 37, wherein the first and second data are recorded in a same recording operation.

Claim 40 (Previously Presented): The method of claim 37, wherein the first and second data are recorded in independent recording sessions.

Claim 41 (Previously Presented): The method of claim 35, wherein one or more copies of the first defect information are stored on the disc together with the defect information.